

## REMARKS

Claims 1-6 are pending and under consideration. In the Final Office Action of March 14, 2006, the Examiner made the following disposition:

- A.) Rejected claims 1, 3, 4, and 6 under 35 U.S.C. §102(b) as being anticipated by *Xu, et al.*
- B.) Objected to claims 2 and 5.

Applicants respectfully traverse the rejection and address the Examiner's disposition below.

- A.) Rejection of claims 1, 3, 4, and 6 under 35 U.S.C. §102(b) as being anticipated by *Xu, et al.*:

Applicants respectfully disagree with the rejection.

Referring to Applicants' Figure 2 for illustrative purposes, Applicants' independent claims 1 and 4, each as amended, each claim subject matter relating to a resonating structure resonating light generated in a light-emitting layer 13C between a first end portion P1 and a second end portion P2. An optical distance L1 between the first end portion and a maximum light-emitting position 13E of the light emitting layer 13C satisfies a first claimed mathematical formula. An optical distance L2 between the second end portion P2 and the maximum light-emitting position 13E of the light-emitting layer 13C satisfies a second claimed mathematical formula. Further, a distance L between the first end portion and the second end portion equals the sum of the distance L<sub>1</sub> and the distance L<sub>2</sub>.

Thus, Applicants' claimed resonating structure includes optical distance L1 and optical distance L2 that are adjacent at the maximum light-emitting position 13E of light emitting layer 13C. And the distance L between the first end portion and the second end portion equals the sum of the distance L<sub>1</sub> and the distance L<sub>2</sub>.

This is clearly unlike *Xu*. Referring to *Xu* Figure 2, *Xu* discloses a device having two microcavities 32 and 34 that are separated by a mirror stack 41. The Examiner argues that *Xu's* distances L1 and L2 teach Applicants' claimed optical distances L1 and L2, however, Applicants respectfully disagree. Unlike Applicants' claimed optical distances L1 and L2, *Xu's* distances L1 and L2 are not adjacent at a maximum light-emitting position of a light emitting layer. In fact, *Xu's* distances L1 and L2 are not adjacent, they are separated by a mirror stack 41. For at least this reason, *Xu* fails to disclose or suggest claims 1 and 4.

Further, nowhere does *Xu* even suggest an optical distance L1 that satisfies Applicants' claimed mathematical formula 1 and optical distance L2 that satisfies Applicants' claimed mathematical formula 2. *Xu* fails to mention the claimed mathematical formulas, let

alone the components of the formulas. The Examiner appears to argue that Xu's microcavities 32 and 34 have some thickness and therefore must inherently satisfy Applicants' claimed mathematical formulas. Applicants disagree. The mathematical formulas are claimed limitations that are neither disclosed nor suggested by Xu, further they are not inherent in Xu. It appears that the Examiner has merely ignored that Xu fails to teach the claimed mathematical formulas. For at least this additional reason, Xu fails to disclose or suggest claims 1 and 4.

Claims 3 and 6 depend directly or indirectly from claims 1 or 4 and are therefore allowable for at least the same reasons that claims 1 and 4 are allowable.

Applicants respectfully submit the rejection has been overcome and request that it be withdrawn.

B.) Objection to claims 2 and 5:

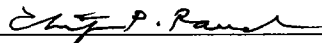
Applicants respectfully acknowledge the Examiner's finding of allowable subject matter in claims 2 and 5. Independent claims 1 and 4 are allowable as discussed above. Claims 2 and 5 depend directly or indirectly from claims 1 or 4 and are therefore allowable for at least the same reasons that claims 1 and 4 are allowable.

Applicants respectfully submit the objection has been overcome and request that it be withdrawn.

CONCLUSION

It is submitted that claims 1-6 are patentable and that the application is in condition for allowance. Notice to that effect is requested.

Respectfully submitted,

 (Reg. No. 45,034)  
Christopher P. Rauch  
SONNENSCHN NATH & ROSENTHAL LLP  
P. O. Box 061080  
Wacker Drive Station - Sears Tower  
Chicago, Illinois 60606-1080  
Telephone (312) 876 8000  
Customer No. 26263